

Geometric Etude #2

Suite: Geometric Etudes

by Arya Akhavan (December 2012)

Angles for R.I. = 1.630

129 + 8 girdles = 137 facets

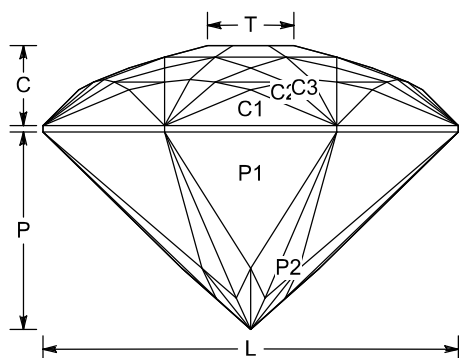
8-fold, mirror-image symmetry

96 index

L/W = 1.000 T/W = 0.207 U/W = 0.207

P/W = 0.475 C/W = 0.192

Vol./W³ = 0.235



PAVILION

P1	44.50°	96-12-24-36-48-60-72-84	Cut to centerpoint.
G1	90.00°	96-12-24-36-48-60-72-84	Set stone size.
P2	42.50°	02-10-14-22-26-34-38-46-50-58-62-70-74-82-86-94	Meet P1, G1
P3	41.50°	01-11-13-23-25-35-37-47-49-59-61-71-73-83-85-95	Meet P1, P2

CROWN

C1	45.00°	96-12-24-36-48-60-72-84	Set girdle width.
C2	37.43°	02-10-14-22-26-34-38-46-50-58-62-70-74-82-86-94	Meet G1, C1
C3	35.04°	04-08-16-20-28-32-40-44-52-56-64-68-76-80-88-92	Meet G1, C1, C2
C4	27.37°	96-12-24-36-48-60-72-84	Meet C1, C2
C5	21.64°	96-12-24-36-48-60-72-84	Meet C2, C3, C4
C6	19.47°	02-10-14-22-26-34-38-46-50-58-62-70-74-82-86-94	Meet C2, C3, C4, C5
C7	16.93°	96-12-24-36-48-60-72-84	Meet C5, C6
C8	15.00°	96-12-24-36-48-60-72-84	Meet C6, C7
T	0.00°	Table	Cut to 50% of C8 width.

I decided to take my idea from the first etude, and extend it to a hexagon. Unfortunately, I couldn't come up with a way to include all the nodal lines without having some random lines in there. The design darkens colors! I like this in danburite or rutile, but it works in materials from quartz to rutile (RI = 1.54 - 2.62) with no changes. Suggested size = 8-12 mm

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